The state of the s	(A) <u>L 10939-66</u> EWT(1)/EWA(j)/EWT(m)/EWP(j)/T/EWA(b)=2 WW/JK/RM ACC NR: AP6002540 SOURCE CODE: UR/0286/65/000/023/0041/0041
All services of	INVENTOR: Rogovin, Z. A.; Virnik, A. D.; Sidel'kovskaya, F. P.; Mal'tseva, T. A.; Ibragimov, F. 44155 ORG: none
THE STATE OF THE S	ORG: none TITLE: Manufacture of copolymer end products. Class 29, No. 176661
The state of	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 41
	TOPIC TAGS: graft copolymer, bactericide, copolymer, polymer, synthetic material ABSTRACT: An Author Certificate has been issued for a method for manufacturing
	end products with bactericidal properties from copolymers/prepared by grafting synthetic polymers (unspecified) to natural polymers, such as cellulose. The method involves treatment of the products with iodine solution. [BO]
	SUB CODE: 11,07SUBM DATE: 23Jun64/ ATD PRESS: 4/70
to the same of the	
2	Card 1/1 UDC: 677 494 713:661.728.3-139
, 62	

Door regularities in the mucleophilic substitution of various at falces esters with hydrolalides. Vysokom. soed. 7 no.2:199-204. 7 165.

1. Moskovskiy tekstil'nyy institut.

Infrared spectroscopic study of the ion exchange of graft copolymers of cellulose and polymerylaydroxamic acid with Fe⁺² and Cu⁺ ions. Typokom. sped. 7 no.4:265-210 F ⁺⁶⁵. (MEA 18:3)

1. Varkovskiy tekstillayy institut.

KHOIMURADOV, N.; KOZLOVA, Yu.S.; FOLYAKOV, A.I.; HOGOVIN, L..

Synthesis of togylnitrodeoxycellules: Vysokom. sced. 7 nc.:
439-442 Mr '65.

1. Moskovskiy telstil'nyy institut.

42130-65 EWT(m)/EPF(c)/EPR/EWP(j)/T	Pc-4/Pr-4/Ps-4 RPL WW/RM
CCESSION NR: AP5011258	UR/0190/65/007/004/0756/0756
lonkin, A. A.	elyan, G. A.; Rogovin, Z. A.;
TITLE: New preparative method by the method of conversion to	for an <u>acrylonitrile acrolein</u> copolym polymer analogs
OURCE: Vysokomolekulyarnyye s	oyedeniya, v. 7, no. 4, 1965, 756
COPIC TAGS: copolymer, polyacr	ylonitrile, acrylonitrile acrolein
ABSTRACT: The feasibility has	been shown of preparing an acrylo-
nitrile-acrolein copolymer by c In polyacrylonitrile to aldehyd	onversion of some of the nitrile groups by the Stephen method
(O. Stephen, J. Chem. Soc., 127	, 1874, 1925);
CHa-CH- m SnCla C-CHa-(CH— CH ₃ —CH— SnCl ₄ C=NH ₃) s
H _s O CH _s —CH	
Card 1/2	

142130-65 Accession NR: AP5011258		0	
t is noted that previously starting from the monomers of solvacrylonitrile and polysche amount of SnCl ₂ used we sitrile. Copolymers contains orepared. Orig. art. has:	acrylonitrile fibe as 0.6 to 1.5 mol/ lning up to 20 mol	er in dioxane at 60-100C	•
ASSOCIATION: none			
SUBMITTED: 18Sep64	ENCL: 00	SUB CODE; OCCC	
NO REF SOV: 000	OTHER: 002	ATD PRESS: 3239	
			a selections

Vispender Visits Califficates, L.S.; FERER, Kh.S.; RCGCVIN, Z.A.

Mynthesis of kero group-containing cellulese esters. Vysokom. soed.

7 no.51780-770 My 165.

1. Mogkovskiy tekstilinyy institut.

PREDVODITELEV, D.A.; NIFANT YEV, F.Ye.; ROGOVIN, Z.A.

Synthesis of cellulose hypophosphites. Vysokom. soed. 7 no.5:791-794 My 165. (MIRA 18:9)

1. Moskovskiy tekstilinyy institut.

SMIRNOVA, G. N.; POLYAKOV, A.I.; ROGOVIN, Z.A.

Synthesis of cellulose derivatives containing 2,3-anhydro rings. Vysokom. soed. 7 no.6:972-977 Je '65. (MIRA 18:9)

1. Moskovskiy tekstil nyy institut.

PREDVODITELEV, D.A.; NIFANT'YEV, E.Ye.; ROGOVIN, Z.A.

Synthesis of cellulose phosphites by the reaction of monomethyl phosphite with cellulose and their subsequent transformations. Vysokom, soed. 7 nc.6:1005-1009 Je 165. (MIRA 18:9)

1. Moskovskiy tekstil nyy institut.

CHORTANO, A.P.; PENENZHIK, M.A.; VIINIK, A.D.; ROGOVIN, Z.A.

Cynthesis of dialdehyde and dicarboxyl dextrans. Vysokom. seed. 7 no.6: 1030-1034 Je 165. (MIRA 18:9)

1. Moskovskiy tekstil ray institut.

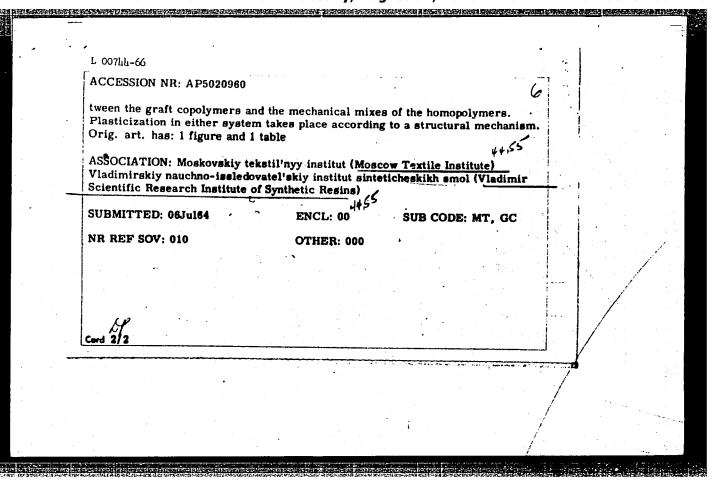
KHUROVAKAW As a VIRNIE, A.D. & USHAKOV, S.N. [deceased]; ROGOVIN, Z.A.;

Synthesis of polymeric medicinal compounds based on dextran derivatives.

Vysokom. soed. 7 no.651035-1040 Je 165.

1. Moskovskiy tekstillnyy institut.

Acetylation was carried out in homogeneous medium in the presence of cellu- as catalyst. The thermomechanical properties of mechanical mixtures of cellu- as catalyst. The thermomechanical properties of mechanical mixtures of cellu- lose triacetate with polybutylacrylate which is incompatible with the former) and lose triacetate with polybutylacrylate which is impossible to differentiate be- of the graft copolymers were investigated. It was impossible to differentiate be-	Acetylation was darried on the darried of mechanical mixtures of as catalyst. The thermomechanical properties of mechanical mixtures and as catalyst. The thermomechanical properties of mechanical mixtures and as catalyst. The thermomechanical properties of mechanical mixtures are catalysts. The thermomechanical properties of mechanical mixtures are catalysts. The thermomechanical properties of mechanical mixtures are catalysts. The thermomechanical properties are catalysts and catalysts are catalysts. The thermomechanical properties of mechanical mixtures are catalysts. The thermomechanical properties are catalysts as catalysts. The thermomechanical properties are catalysts and catalysts are catalysts as catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts are catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts are catalysts as catalysts. The catalysts are catalysts are catalysts as catalysts are catalysts as catalysts. The catalysts are catalysts as catalysts are catalysts as catalysts are catalysts as catalysts are catalysts. The catalysts are catalysts as catalysts are catalysts as cat		ACCESSION NR: AP5020960 AUTHOR: Movsum-Zade, A. A.; Kuznetsov, G. A.; Fomenko, L. N.; I. R. M.; Konkin, A. A.; Hogovin, J. A.; Fomenko, L. N.; I. R. M.; Konkin, A. A.; Hogovin, J. A.; Fomenko, L. N.; I. TITLE: Plasticization of cellulose triacetates by grafting on polybutylad SOURCE: Vysokomolekulyarnyye soyedineniya. v., 7. no. 8, 1965, 1207 (1997) TOPIC TAGS: plasticization, block copolymer, thermomechanical processing from the properties of mechanical processing graft copolymers with different compositions were obtained by previously synthesized cellulose-polybutylacrylate graft copolymers. Were synthesized with the aid of an oxidation-reduction system using the cellulose carried out in homogeneous medium in the presence of Acetylation was carried out in homogeneous medium in the presence of the properties of mechanical mixture.	crylate 7-1300 sperty, n with in- olybutyl- y acetylating The latter Ce+4 salts.	
Cord 1/2	Cord 1/2	•			
			Cord 1/2		- 시구 년



RPL WW/RM EWT(m)/EPF(c)/EWP(j)/T/EWA(c) L 64554-65 UR/0190/65/007/008/1463/1467 ACCESSION NR: AP5020 678.01:54 AUTHOR: Morin, B. P.; Kryazhev, Yu. G.; Rogovin, Z. 1465 TITLE: New method of incorporating into polymer macromolecules peroxid groups used for the synthesis of block copolymers 7, no. 8, 1965, 1463-1467 SOURCE: Vysokomolekulyarnyye soyedineniya, v. TOPIC TAGS: block copolymer, copolymerization, polyvinyl alcohol, polycapramide, peroxide, oxidation reduction reaction, cellulose ABSTRACT: The new method developed herein for incorporating peroxide groups into a polymer is based on the oxidation of a polymer in oxidation-reduction systems containing H₂O₂ as one component. The polymer was swelled in a solution of one component of the system, and then treated with the second component. Iron salts (FeSO4, FeCl3) in conjunction with H2O2 were most effective. The oxidized polymers were then capable of initiating block copoymerization. Block copolymers of cellulose, polyvinyl alcohol or polycapramide with acrylonitrile, 2-methyl-5-vinylpyridine, acrylic or methacrylic acids were synthesized. The Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

L 64554-65

ACCESSION NR: AP5020975

SUBMITTED: 09Oct64

3

mechanism of peroxide group formation in the initial polymer macromolecule is discussed. The block copolymerization is initiated by macroradicals formed by dissociation of the peroxide groups introduced by the treatment in an $\rm H_2O_2$ oxidizing agent or $\rm H_2O_2$ reducing agent system. Orig. art. has: 3 sets of equations, 2 tables

ASSOCIATION: Moskovskiy tekstil'nyy institut (Moscow Textile Institute)

ENCL: 00 SUB CODE: Mr, CC

NR REF SOV: 000 OTHER: 004

- 04

GULINA. A.A., LAVSHITS, R.M., ROGOVIN, Z.A.

Synthesis of graft copolymers of cellulose and polyacrylonitrile in the presence of the oxidation-reduction system cellulose - Fe^{2+} . $H_2^*O_2$. Part 2: Effect of the initiation conditions on the polymerization coefficients of polyacrylonitrile and on the degree of conversion of cellulose. Vysokom. soed. 7 no.9:1529-1534 S '65. (MIRA 18:10)

1. Moskovskiy tekstil'nyy institut.

KOROTKOVA, A.Ya.; ROGOVIN, Z.A.; Prinimala uchastive LARINA, V.V.

Synthesis of graft copolymers of cellulose and polymethyl vinyl ketone. Vysokom. soed. 7 no.9:1571-1575 S '65.

(MIRA 18:10)

1. Moskovskiy tekstil'nyy institut.

BALABAYEVA, M.D.; SHARKOVA, Ye.F.; ZHBANKOV, R.G.; VIRNIK, A.D.; ROGOVIN, Z.A.

Infrared spectroscopy method of studying the structure of some graft copolymers of cellulose. Vysokom.soed. 7 no.10:1763-1766 0 065. (MIRA 18:11)

1. Moskovskiy tekstil'nyy institut.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

EWT(m)/ETC(F)/EWG(m)/EWP(j)/T RM/DS UR/0190/65/007/012/2020/2023 SOURCE CODE: ACC NR: AP6001855 Gal'braykh, L. S.; Rogovin, Z. A. AUTHORS: Chaykina, Ye. A.; ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut) TITLE: Synthesis of a polymeric complexing agent based on modified cellulose substituted with iminodiacutate groups SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2020-2023 TOPIC TAGS: ion exchange resin, cellulose, intermolecular complex ABSTRACT: Preparation of a selective ion exchanger by nucleophilic substitution reaction of cellulose tosylate (I) with iminodiacetic acid (II) or its diethyl ester (III) was investigated. Reaction proceeded according to the equation nhn (ch.coor); 7 $[C_6H_7O_2(OH)_{3-x}(OSO_2C_6H_4CH_3)_x]_n = -nGH_3C_6H_4SO_3H_3$ $[C_6H_7O_2(OH)_{3-x}(N(OH_2COOR)_2)_x]_n,$ where R = H, C_2H_{ζ} . The effect of the temperature and time of reaction on the composition of the product was studied. Optimum reaction conditions were 16--17 hours at 1200, with liquor ratio of 1:20 and molar ratio of I:II = 1:5. Degree of sub-Card 1/2

stitution of the product groups = 12.513.5%, ex	CIMINEO CODGES		. O 11		DOT THE	
equiv/g (measured with o	shows it to for	m complexes	with Cu ²⁺	and Ni ²⁺	ions. Orig	
art. has: 2 tables and	l equation.		8 . 1	11.		
SUB CODE: 07/	SUBM DATE:	160ct64/	ORIG RE	F: 004/	OTH REF:	000
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				DONE FREE DA	voA 1 in the Year	

A L 11526-66 EWT(m)/EWP(1)/EWA(h)/EWA(1) RM (2000/65/007/012/2174/2175]
NR: AP60001877 14,55 RS: Dimitrov, D. G.; Gal'braykh, L. S.; Rogovin, Z. A. 1/2	
none RS: Dimitrov, D. G.; Gal'braykh, L. S.; Rogovin, 2 47,55	
: New method for synthesis of cellulose derivatives	
E: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2174-2175	
TAGS: polymer, radical polymerization, polycondensation, cellulose, cellulose	
PACT: Several desoxyderivatives of cellulose were synthesized by a radical addi- reaction. The starting material was 5.6 cellulosene suggested by Ye. D. reaction. The starting material was 5.6 cellulosene suggested by Ye. D. reaction was carried out in a heterogeneous phase in an atmosphere of dry argon ceaction was carried out in a heterogeneous phase in an atmosphere of dry argon co-65C, and with UV irradiation in the presence of benzoyl peroxide, tertiary co-65C, and with UV irradiation in the presence of benzoyl peroxide, tertiary composed peroxides. The compounds synthesized were: 6-C-desoxy-6- composed peroxides, 5-chloro-6-C-desoxy-6-trichloromethyl cellulose, the coride of 5-chloro-6-C-desoxy-cellulosephosphonic acid, and 6-C-desoxy-trichloromethyl cellulose. The degree of substitution of ranged from 15-20. Further work is regress. Orig. art. has: 1 equation.	
COIE: 11,07/SUBM DATE: 21Jun65/ ORIG REF: 001/ OTH REF: 004 UDC: 541.64+661.728.89	
1/10()	- FAS 10

12959-65 EWT(m)/EPF(c)/EWP(j)/T	Pc-4/Pr-4 RM		126
CCESSION NR: AP5010991 UTHOR: Ivanov, N. V.; Rogovi ITLE: Synthesis of silicon-c OURCE: IVUZ. Khimiya i khim	, Z. A.; Nguyen	000	21 21
OPIC TAGS: cellulose ether cellulose ether, mercerization ABSTRACT: There is some indicontaining cellulose ethers ein this work, alkalized cellumethylsilane, iodomethyltrime	alkylated cell ation in the li hibit desirable ose was alkylate hylsilane, and	terature that sili technical propert ed with chlorometh chloromethyltrieth eatment with chloromethyl	con- ies. nyltri- nylsilane. romethyl-
It was found that when cerial triethylsilane at 120C for 20 rather than with 40% NaOH, the fell from 4.8% to 1.7%. This chloromethyl group, concurred triethylsilane. Other data	e silicon conce may be explain	ed by cleavage of	the thyl-

ooro 6r			
2959-65			
domethyltrimethylsilane imethylsilane. Similarly tive than chloromethyltri llulose ethers obtained a chloroethane, and other cammoniacal copper solutitables.	methylsilane. The re not soluble in	silicon-conta benzene, toluen They are also n	ining e, acetone, ot soluble
SOCIATION: Moskovskiy to	akstil'nyy institu	회사는 그 발생을 받는다고 위하다	
JBMITTED: 180ct63	ENCL: 00	SUB CODE: 1	r, oc
O REF SOV: 003	OTHER: 000	ATD PRESS:	3236
	사이 왕에도 하다는 네 뭐 그렇는 뭐 말하는데 된다		

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

EWG(j)/EWT(m)/EPF(c)/EPR/EWP(j)/T/EWA(h)/EWA(1) RPL WW/RM-UR/0153/65/008/002/0291/0296 ACCESSION NR: AP5015571 AUTHOR: Gulina, A. A., Kryazhev, Yu. G., Rogovin, Z. A. TITLE: Synthesis and study of the properties of a cellulose polystyrene graft copolymer SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 2, 1965, 291-296 TOPIC TAGS: cellulose plastic, polystyrene, graft copolymer, copolymer stability ABSTRACT: The method of synthesis used made it possible to carry out the reaction under mild conditions in an aqueous medium without simultaneous homopolymer formation. Cellulose was alkylated with 48-hydroxyethylsulfonyl-2-aminoanisole acid sulfate; the amino group was then diazotized, and the diazo group was reduced by FeSO4 in the presence of the styrene monomer, present in an aqueous emulsion. The graft copolymerization took place in argon in sealed ampoules. The effect of the reaction temperature and reaction time on the composition of the copolymers is discussed. The copolymers obtained were quite hydrophobic, and this hydrophobicity causes them to be more stable to attack by mineral acids (hydrolysis by H2SO4) than the original cellulose material.

and it was found that under the conditions of synthesis employed, the degree of polymerizatord 1/2

L 59282-65

ACCESSION NR: AP5015571

2

tion of polystyrene in the side chain of the macromolecule of the graft copolymer amounts to 700. "We express our appreciation to N. D. Rozenblyum, in whose laboratory the irradiation of the samples was carried out." Orig. art. has: 2 figures and 4 tables.

ASSOCIATION: Kafedra khimicheskikh volokon, Moskovskiy tekstil'nyy institut (Department of Chemical Fibers, Moscow Textile Institute)

SUBMITTED: 09Sep63

ENCL: 00

SUB CODE: MT

NO REF SOV: 003

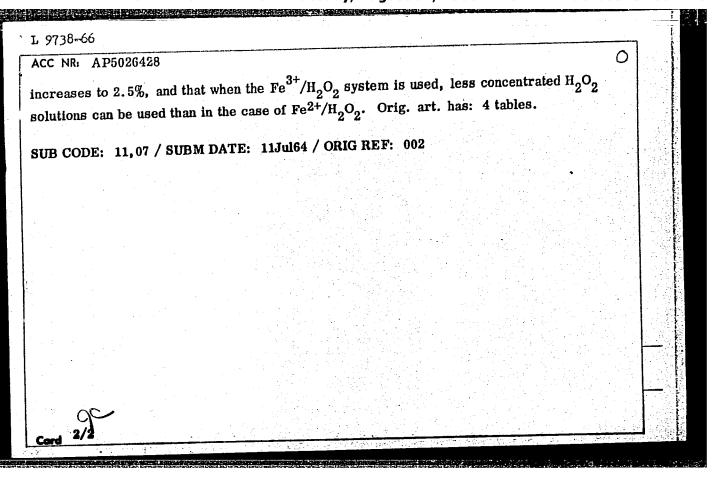
OTHER: 003

SHARKOVA, Years; VIRNIK, Ashor REXEWIN, V.A.

cyclosofs of callplose ether centaining a double bond, and the polymer analog conversions, law, vys. wheb. 22v.; khim. 1 khim, takh. 8 no.3:465-468 165. (MIRA 18:10)

T. Moskorskiy teksbilinyy institut, kafedra khimicheskikh welihon.

图 再到用,包含的在在地方的有效的证据。因为这种种,但它也是是否是由于的法则是对于的。	DE PESSE
A L 9738-66 EWT(m)/EWP(j)/T RPL WW/RM SOURCE CODE: UR/0153/65/008/004/0651/0654 ACC NR: AP5026428 DAI: Virnik, A. D.; Rogovin, Z. A.	
A L 9738-66 EWT(p)/EWP(j)/T RPL WW/ANY SOURCE CODE: UR/0153/65/008/004/0651/0654	
ACC NR: AP5026428	
ACC INT. AFORENTIA. Z. A.	
ACC NR: AP5026428 AUTHOR: Mal'tseva, T. A.; Snezhko, D. L.; Virnik, A. D.; Rogovin, Z. A. AUTHOR: Mal'tseva, T. A.; Snezhko, D. L.; Virnik, A. D.; Rogovin, Z. A.	
AUTHOR: Mai tseva, 1,	
My sodra khimicheskikh	
ORG: Department of Synthetic Fibers, Moscow Textile Institute (Kafedra khimicheskikh	
ORG: Department of Synthetic Florifith	
org: Department of Syntholic volokon, Moskovskiy tekstil'nyy institut)	
he calluloge and polyacrylic acid	•
TITLE: Synthesis of graft copolymers of cellulose and polyacrylic acid TITLE: Synthesis of graft copolymers of cellulose and polyacrylic acid 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
111 DE. Symmetric V. 8, no. 4, 1965, 651-654	
Khimiya i khimicheskaya teknnologiya, v. o,	1
SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 8, no. 4, 1965, 651-654	•
TOPIC TAGS: graft copolymer, acrylic acid, cellulose plastic, the process of the authors, a new method was recently developed for	
TOPIC TAGS: graft copolymer, acryston and synthetic polymers. It consists in the pre-	
ABSTRACT: In the laboratory of callulose and synthetic polymers. It consists a result in Fe2+/H O	
amthodiving grait coposition into the neighbor made and	1
liminary introduction of peroxide groups into the polymer liminary introduction of peroxide groups in the and Fe ³⁺ /H ₂ O ₂ redox systems. Subsequent decomposition of these peroxide groups in the and Fe ³⁺ /H ₂ O ₂ redox systems. The	
3+ 4 O redox systems. Subsequent decomposition of these posts of the shair. The	
and Fe ³⁺ /H ₂ O ₂ redox systems. Subsequent decomposition of those Foundation of the chain. The presence of Fe ²⁺ ions produces macroradicals which initiate the growth of the chain. The presence of Fe ²⁺ ions produces macroradicals which initiate the effect of various factors presence of the conditions of this process and determined the effect of various factors.	
process of Fe ²⁺ ions produces macroradicals and determined the effect of various lacture	
presence of Fe ²⁺ ions produces macroradicals which initiate the growth of the presence of Fe ²⁺ ions produces macroradicals which initiate the growth of the presence of Fe ²⁺ ions produces macroradicals which initiate the growth of the greatest the growth of t	
authors studied in a concentration, temperature of treatment to 2 2 2	
(FeSO ₄ and 12 2	n l
authors studied the condition, temperature of treatment with 1202 solution (FeSO ₄ and H ₂ O ₂ concentration, temperature of the graft copolymers formed. It was found that monomer concentration) on the composition of the graft copolymers formed. It was found that the content of grafted polyacrylic acid in the copolymer rises sharply as the H ₂ O ₂ concentration the content of grafted polyacrylic acid in the copolymer rises sharply as the H ₂ O ₂ concentration.	
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CIA-RDP86-00513R001445

PREDVODITELEV, D.A.; TYUGANOVA, M.A.; NIFANT'YEV, E.Ye.; ROGOVIN, Z.A.

Synthesis of phosphorous cellulose esters by reesterification of dimethyl phosphite and their subsequent transformations. Zhur. VKHO 10 no.4:459-461 65. (MIRA 18:11)

1. Moskovskiy tekstil'nyy institut.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

是这种情况。我们就是这种情况,我们就可以被自然的证明,他们就是这些人的,我们就是这个人的,他们就是这个人的。

CIA-RDP86-00513R001445

MAKHKAMOV, K., aspirent; VIRNIK, A.P., starshiy mauchnyy sotrudnik; ROGOVIN, Z.A.

Investigating the effect of the chemical structure of some stabilizers on the resistance to fading of cellulose acetate Pabrics, Tekst.prom. 25 no.1928-30 Ja 165.

(MIRA 18:4)

1. Institut khimii AN Tadzhikskoy SSR (for Makhkamov). 2. Moskovskiy
tekstil'nyy institut (for Virnik). 3. Zaveduyushchiy kafedroy
khimicheskikh valokum Moskovskiya takshiri na kafedroy khimicheskikh volokon Moskovskogo takstillnogo instituta (for Rogovin).

MALITSEVA, T.A., aspirant; VIRNIK, A.D., starshiy nauchnyy sotrudnik;
ROGOVIN, Z.A., prof.; SHCHEGLOVA, G.V., aspirant; VASHKOV, V.I., prof.

Antibacterial cellulose fibers and fabrics. Tekst. prom. 25 (MIRA 18:5) no.4:15-17 Ap '65.

1. Moskovskiy tekstil'nyy institut (for Mal'tseva, Virnik, Rogovin). 2. TSentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut (for Shcheglova, Vashkov).

MAL'TSEVA, T.A., aspirant; VIRNIK, A.D., starshiy nauchnyy sotrudnik; ROGOVIN, Z.A., prof.; SHCHEGLOVA, G.V., aspirant; VASHKOV, V.I., prof.

Antimicrobic synthetic fibers and fabrics. Tekst. prom. 25 no.9:31-32 S '65

1. Moskovskiy tekstil'nyy institut (for Mal'tseva, Virnik, Rogovin). 2. TSentral'nyy nauchno-issledovatel'skiy dezinfektsion-nyy institut (for Shcheglova). 3. Direktor TSentral'nogo nauchno-issledovatel'skogo dezinfektsionnogo instituta (for Vashkov).

LIVSHITS, R.M.; ROGOVIN, Z.A.

Graft copolymers of cellulage and its derivatives. Usp. khim.
(MTRA 18:7)
34 no.6:1086-1107 Je '65.

1. Moskovskiy tekstil'nyy institut.

SOURCE COLE: UR/0190/66/008/001/0020/0025 est(m)/esp(j)/T ACC NR: AP6003408 AUTHORS: Garbuz, N. I.; Zhbankov, R. G.; Korotkova, A. Ya.; Kryazhev, Yu. G.; ORG: Institute of Physics, AN BSSR (Institut fiziki AN BSSR); Moscow Textile Rogovin, Z. A. Institute (Moskovskiy tekstil nyy institut) TITLE: Study of carbonyl-substituted cellulose graft copolymers by means of IR spectroscopy (189th report in series "Investigation of Structure and Properties of Cellulose and Its Derivatives") SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 20-25 TOPIC TAGS: graft copolymer, cellulose plastic, IR spectroscopy / IK-10 IR ABSTRACT: IR spectra of carbonyl-substituted graft copolymers of cellulose and polymethylvinylketone ((I), of polymethacrolein (II), and of poly-2-methyl-5vinyl-N-ethanalpyridinium chloride have been investigated. Preparation of the graft copolymers has been described earlier by A. Ya. Korotkova and Z. A. Rogovin (Vysokomolek. soyed., 7, 1571, 1965); and by A. Ya. Korotkova, Yu. G. Card 1/2

0

18394-66

Kryazhev, and Z. A. Rogovin (Vysokomolek. soyed., 6, 1980, 1964). The spectra were obtained on a double beam spectrophotometer IK-10 in the regions 2600-3800 cm-1 (LiF prism), 700--1800 cm-1 (NaCl prism), and 400--700 cm-1 (KBr prism). Carbonyl absorptions in these regions (typical for the investigated graft copolymers and homopolymers) are described and discussed. Mechanisms of methylvinylketone and methacrolein polymerization during the formation of graft polymers of cellulose with (I) and (II) have been investigated. Orig. art. has: 1 table, 5 figures, and 4 structures.

SUB CODE: 07/ SUBM DATE: 04Feb65/ ORIG REF: 006/ OTH REF: 003

Card 2/2 mc

AUTHORS: El'garf, S. A.; Konkin, A. A.; Rogovin, Z. A. ORG: Moscow Textile Institute (Moskovskiy tokstil'nyy institut) TITLE: Synthesis of polyacrylonitrile graft copolymers (J.J.) SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 42-48 TOPIC TAGS: graft copolymer, polyacrylonitrile, polymerization initiator, redox reaction ABSTRACT: A new method for synthesizing graft copolymers of modified polyacrylonitrile (I) with polyacrylonitrile and polymethacrylate (II) while using acrylonitrile (I) with polyacrylonitrile (I) was prepared from acrylonitrile and acrylonitrile and second in the latter enabled the	
ORG: Moscow Textile Institute (Moskovski) TITLE: Synthesis of polyacrylonitrile graft copolymers (1,1,5) SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 42-48 TOPIC TAGS: graft copolymer, polyacrylonitrile, polymerization initiator, redox reaction ADSTRACT: A new method for synthesizing graft copolymers of modified poly-	
TITLE: Synthesis of polyacrylonitrile graft copolymer SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 42-48 TOPIC TAGS: graft copolymer, polyacrylonitrile, polymerization initiator, redox reaction ADSTRACT: A new method for synthesizing graft copolymers of modified poly-	
TOPIC TAGS: graft copolymer, polyacrylonitrile, polymerization initiator, redux reaction ARSTRACT: A new method for synthesizing graft copolymers of modified poly-	
reaction reaction Appropriate A new method for synthesizing graft copolymers of modified toly Appropriate And polymerthacrylate (II) while using	
a redox system is described. Modified (17 was proup in the latter enabled as a redox system). The redox polymerization the redox system).	
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Rogovin (Khimich. volokna, 1963, No. 4, 12). Implies the upon the rate of formation time upon the rate of formation time upon the rate of formation upon the rate of formation time upon the rate of formation	

L 13347-66

ACC NR: AP6003412

It was shown that the initiation step in the graft polymerization, occurring via the redox system, takes place with localization of an unpaired electron at the carbonyl carbon atom and that the side chain is attached to the main chain of the graft copolymer via C-C bond. The authors express their gratitude to N. Makarevich for taking the IR spectra. Orig. art. has: 1 table, 4 figures, and 3 equations.

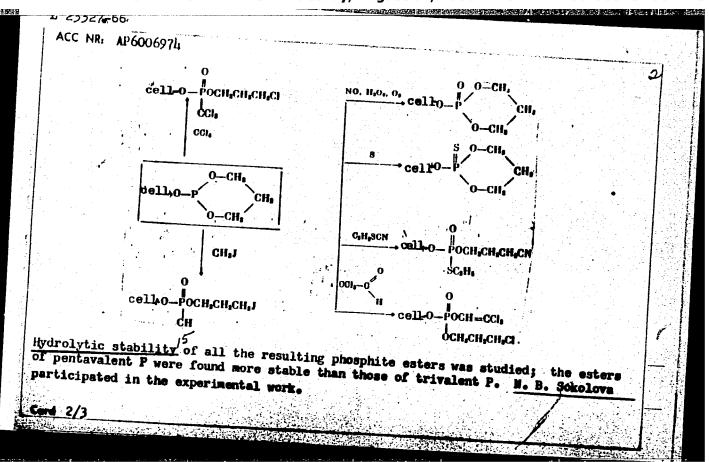
SUB CODE: 07/ SUBM DATE: 10Feb65/ ORIG REF: 002/ OTH REF: 006

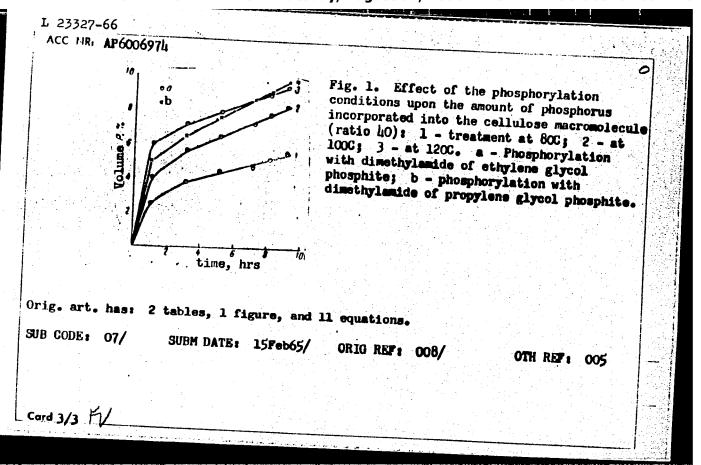
Card 2/2 mc

L 17721-66 EWP(j)/EWT(m) ACC NR: AP6003415 SOURCE CODE: UR/0190/66/008/001/0076/0079 AUTHORS: Predvoditelev, D. A.; Nifant'yev, E. Ye.; Rogovin, Z. A ORG: Moscow Textile Institute (Moskovskiy tekstil'nyy institut) TITLE: New method for the synthesis of phosphor-containing cellulose esters SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 1, 1966, 76-79 TOPIC TAGS: cellulose, phosphate ester, esterification, phosphorylation, phosphorous acid, organic synthetic process, ester ABSTRACT: Reaction of mixed acetic and methyl phosphorous anhydride (I) with cellulose (II) yielded cellulose alkyl phosphites (III), while esterification of II with methylphosphoric anhydride (IV) gave corresponding phosphate (V). Both reactions were of interest, as the prior methods of preparation of these compounds required rigorous conditions leading to the destruction of cellulose. Syntheses of both types of anhydrides were new and followed scheme: 1: CH₂O CH.O. + CICQCH_{0.} —HCI Card 1/2 VDC: 541.64+661.728.89

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ACC NR: AP60034	LS _0		O	1 0			
and scheme 2:	(CII ₂ Q) ₂ P	^{RO,Cl} → (CII ₂ O) ₂ I	-cii,ci	CH OP		0	
	- 1		CI	\ 0.			
Preliminary acti	vation of cel	llulose with	80% acetic	acid was	required.	III was	
prepared at 50	occin an exc	cess of I or	r in an orga	nic solve	at. Effect	s of time.	
temperature, and	catalyst upo	on the amoun	it of P intr	oduced in	to the cell	ulose ester	r
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	VILY OF BUUNC	irides of pe	entavalent p	hosphorus.	. and thus	gave less	1 -
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L 23327-66 EWT(m)/EWP(j) RM	. , ,
ACC NR: AP6006974 (A) SOURCE CODE: UR/0190/66/008/002/0213/0218	
AUTHORS: Predvoditelev, D. A.; Nifant"yev, E. Ye.; Rogovin, Z. A.	
Olic: Moscow Textile Institute (Moskovskiy tekstil'nyy institut)	
(192nd report in the series "Study of the structure and properties of cellulose and its derivatives")	
SOULCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 213-218	
TOPIC TAG: cellulose plastic, phosphorylation, organic synthetic process	
ABSTRACT: Synthesis of cellulose alkylene phosphites by phosphorylation of cellulose with amides of propylene glycol phosphites or with ethylene glycol phosphites is described. Effect of the structure of the amides, reaction time, and temperature upon the amount of the phosphorus incorporated into the product was investigated and is illustrated in Fig. 1. Reactions of cellulose propylene phosphite with a variety of reagents and the products obtained are summarized by	
Cord 1/3 UDC: _66.095.26	<u>-</u> [





VOLGINA, S.A.; KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

Synthesis of telemers of acrylic acid and their use in the production of graft copolymers of cellulose with polyacrylic acid with predetermined length of a side chain. Vysokom.soed. 7 no.7:1154-1158

[MIRA 18:8]

1. Muskovskiy takstilinyy institut.

MORIN, B.P.; KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

New method of introducing peroxide groups into polymer macro-molecules used for the synthesis of graft copolymers. Vysokom. soed. 7 no.8:1463-1467 Ag *65. (MIRA 18:9)

1. Moskovskiy tekstil'nyy institut.

L 1142-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) RPL WW/RM

ACCESSION NR: AP5022596

UR/0190/65/007/009/1529/1534

541.64+661.728+678.745

AUTHORS: Gulina, A. A.; Livshits, R. M.; Rogovin, Z. A.*

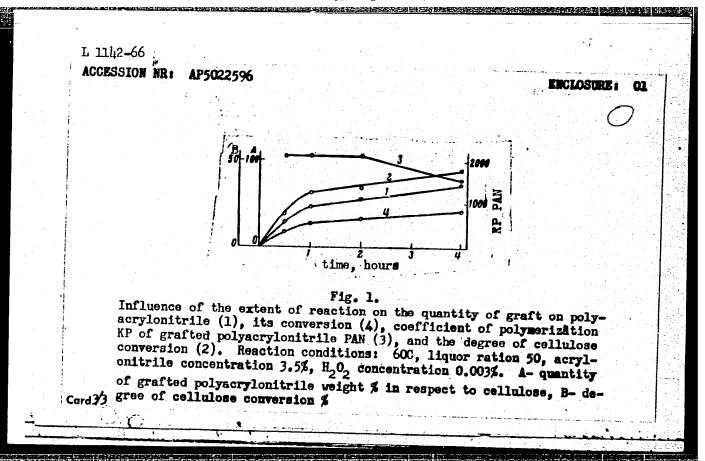
TITLE: Synthesis of cellulose polyacrylonitrile graft copolymers in the presence of the oxidation-reduction system cellulose - Fe² - H₂O₂. 2. Investigation of the influence of different initiation conditions on the coefficient of polyacrylonitrile and on the degree of cellulose conversion

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1529-1534

TOPIC TAGS: polyacrylonitrile, solymer, resin, cellulose, copolymer, graft

ABSTRACT: The factors influencing the coefficient of polymerization in the synthesis of cellulose-polyacrylonitrile graft copolymers and the effect of different initiating conditions on the degree of cellulose conversion have been studied. The synthesis was carried according to the method previously reported by the authors (Khimich. volokna, 1965, 3, 1965). The experimental results are shown copolymers in the presence of cellulose- Fe 2+ H₂O₂ is proposed. It was found

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that the coeffic the grafting met reached the valu	ient of pol hod and that e of 80%.	ymerization of the degree Orig. art. he	of grafted poor of celluloses: 1 table	olyacryloni conversion	rile depend	da on
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EWT(m)/EPF(c)/EWP(j)/T UR/0190/65/007/009/1571/1575 ACCESSION NR: AP5022602 541.644661.7284678.744 AUTHORS: Korotkova, A. Ya.; Regovin, ketone graft copolys TITLE: Synthesis of cellulose-polymethylvinyl SCURCE: Vysokomolekulyernyye soyedineniya, v. 7, no. 9, 1965, 1571-1575 TOPIC TAGS: polymer, copolymer, graft polymer, cellulose, polymethylvinyl ketone, light resistance, thermal stability, wear resistance ABSTRACT: A cellulose derivative containing keto groups was ebtained for the first time by the synthesis of cellulose-polymethylvinyl ketone graft copolymer. In comparison to the effect of various known grafting methods on the composition of the resulting copolymer, it was found that by using Cu+l salts as a reducing agent the synthesis proceeded without the simultaneous homopolymer formation. The effect of various factors (temperature, reaction time, methylvinyl ketone concentration, bath ratio) on the graft copolymerization and on the composition of the resulting copolymer was investigated. Tabulated data show that a temperature increase up to 50C increases the polymethylwinyl ketone content in the copolymer. A further temperature increase does not cause any considerable increase of Card Y2

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ACCESSION NR: AP5022602

content. The composition of the graft copolymer is greatly affected by the monomer concentration in the aqueous solution under the following conditions: 80C, one hour of reaction time, bath ration 50, (CuCl) = 1 mole/mole NH2 group, and a

nitrogen content of 0.495% in the alkylated cellulose. Some properties (light resistance, thermal stability, and wear resistance) of the graft copolymers were investigated. It was established that the introduction of keto groups into the cellulose macromolecule increases considerably the light fastness but strongly decreases the thermal resistance of the modified cellulose fabrics. The wear strength of the original and of the graft copolymer fabrics is the same. The preparation of graft copolymers and the determination of the keto group contents in the copolymer are briefly described. The authors thank Ke. G. Karapetyan for supplying the monomer. V. V. Larin took part in the experiments. Orig. art. has: ASSOCIATION: Moskovskiy tekstil nyy institut (Moscow Textile Institute

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SUB CODE: GC, CC

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OTHER: 001

Card 2/2

IVANOV, N.V., BOCOVIN, 3.A., NGUYEN VIN' CHI

Synthesis of silinon-containing calluloss ethers. Izv. vys. ucheb. rave, khim. 1 khim. takh. 8 no.1:124-126 165. (MIRA 18:6)

1. Moskovskiy tekstilinyy institut, kafedra khimicheskikh volokon.

CULINA, A.A.; KRYAZHEV, Yu.G.; ROGOVIN, Z.A.

Synthesis and analysis of the properties of the graft polymer of calludese and polystyrene. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8 no.28291-296 165. (MIRA 18:8)

L. Moskovskiy tekstilinyy institut, kafedra khimicheskikh volokon.

2

L 30710-66 EWF(j)/EWT(1)/EWT(m)/T RM
SOURCE CODE: UR/0342/65/000/c09/0031/0032

AUTHORS: Mal'tsova, T. A. (Aspirant); Virnik, A. D. (Senior research associate); Rogovin, Z. A. (Professor); Shcheglova, G. V. (Aspirant); Vashkov, V. I. (Professor, Director)

Rogovin,
ORG: Mal'tseva, Virnik (Moscov Textile Institute Moskovskiy tekstil'nyy
Institut); Shcheglova, Vashkov (Central Scientific Research Disinfection Institute
-- Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut)

TITLE: Antibacterial synthetic fibers and cloths

SOURCE: Tekstil'naya promyshlennost', no. 9, 1965, 31-32

TOPIC TAGS: textile, textile industry, bacteria, bactericide, silver

ABSTRACT: Antibacterial synthetic fibers were obtained by treating modified fibers of polyvinylalcohol, bloth made from modified polypropylene fibers, and jersey cloth made from modified capron fibers with the following bactericides: silver, N-cetylpyridinal terramycin, streptomycin, and hexachlorophene. The effectiveness of the treatment was determined by the effect it had on golden staphylococcus and Escherichia coli bacteria. The experimental procedure Card 1/2

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followed that described previously by the authors (Tekstil'naya promyshlennost 1965, 4, str. 15). The results are tabulated. It is concluded that fabrics may be made impervious to bacterial action by treating them with a suitable bactericide. Orig. art. has: 1 table.

SUB CODE: 11/ SUBM DATE: none/ SOV REF: 002

Card 2/2 LS

ACC NR: AP7005629 (A) SOURCE CODE: UR/0413/67/000/002/0086/0087 INVENTOR: Rogovin, Z.A.; Tyuganova, M.A.; Gabrielyan, G.A. ORG: none TITLE: Preparative method for nonburning nitrile group-containing polymers and copolymers. Class 39, No. 190564 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 86-87 TOPIC TAGS: fire resistant material, polymer, copolymer, organic phosphorus compound, organic withit compound ABSTRACT: An Author Certificate has been issued for a method of preparing nonburning nitrile group-containing polymers and copolymers, involving their treatment with dimethyl hydrogen phosphite in the presence of such catalysts as diethyl- or triethylamine. The phosphite can be used in the form of a [BO] solution in an organic solvent. SUB CODE: 11, 07/ SUBM DATE: 08Dec64/ ATD PRESS: 5115 1/1 UDC: 677.499.862.516.22 :546.183 Card

i unary-of mar(m)/mar(j) IJr(c) Ma/AM
ACC NRI AP6002209 (A) SOURCE CODE: UR/0153/65/008/005/0825/0828
AUTHOR: Morozov, V. A.; Sharova, V. V.; Livshits, R. M.; Malakhov, R. A; Rogovin, Z. A.
ORG: Moscow Textile Institute, Department of Chemical Fibers (Moskovskiy tekstil'nyy institut, Kuredra khimicheskikh volokon)
TITLE: Synthesis of graft copolymers of polyvinyl alcohol and methylacrylate in the presence of totravalent cerium salts
SOURCE: IVUZ. Khimiya i khimichoskaya tekhnologiya, v. 8, no. 5, 1965, 825-828.
TOPIC TAGS: graft copolymer, polyvinyl alcohol, cerium compound, hydroquinone, acetone
ABSTRACT: The synthesis of graft polyvinyl alcohol copolymers is based on the fact that the exidation of hydroxyl-containing polymers by Ce ⁴⁺ passes through the formation of free macroradicals capable of initiating the graft copolymerization of monomers contacting vinyl. To avoid the formation of homopolymers, the synthesis time selected was smaller than the induction period of monomer homopolymerization. Polyvinyl alcohol, completely soluble in water, was used in the experiments. The necessary amount of monomer was poured into an aqueous solution of polyvinyl alcohol, and a homogeneous solution or emulsion of methylacrylate was obtained, after shaking, at monomer concentration > 0.446 mole/l. The mixture was thermostated at a definite temperature and
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ACC NR: AP6002209

0.1 N solution of Co ammonium nitrate in 1 N HNO3, thermostated at the same temperature, was poured into the mixture. The reaction was stopped by the addition of hydroquinone. The mixture was then poured into acetone, taken in 20-30-fold excess amount, and, after precipitation, filtered out and dried. The composition of the graft copolymer was determined from the saponification number. A complete conversion of the monomer occurred at the end of 1 hr at 20C and under the following conditions: concentration of 5.0 x 10⁻² mole/1 Co4; 0.5575 mole/1 methylacrylate, 0.1 mole/1 HNO3, and 5% polyvinyl alcohol. The copolymer contained 50.3% polyvinyl alcohol and 49.7% polymethylacrylate. The amount of graft polyvinyl alcohol copolymer increased with increased concentration of Co4% regardless of temperature (5, 10, and 20C) and the duration of the reaction (2 and 1 hr). An increase in the temperature and in the amount of methylacrylate increased the rate of graft copolymerization, but the amount of graft copolymer depended very little on the acid concentration. The properties of synthesized graft copolymers will be discussed in the next paper. Orig. art. has: 2 fig. and 3 tables.

SUB CODE: 07/ SUBM DATE: 16Nov63/ ORIG REF: 002/ OTH REF: 004

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I. \(\int \frac{15\iff(-66 \text{BWT}(\alpha)\/\text{EWF}(\bar{j})\/\text{T} \\ \text{RM} \\ \text{ACC NR: AP6022725 \(\left(A\right)\) SOURCE CODE: \(\mu\rangle\) UR/0183/66/000/002/0049/0051

AUTHOR: Nepochatykh, V. I.; Rogovin, Z. A.; Finger, G. G.; Mogilevskiy, Ye. M.

ORG: [Nepochatykh, Rogovin] MTI; [Finger, Mogilevskiy] VNIIV

TITLE: Production of copper xanthate fiber

SOURCE: Khimicheskiye volokna, no. 2, 1966, 49-51

TOPIC TAGS: synthetic fiber, xanthic acid, bactericide, wood chemical product, copper compound, organic sulfur compound, eclluber plastic, synthetic fiber, copper compound

ABSTRACT: The authors used available data on the change occurring in the stability of cellulose xanthate in accordance with the nature of the cations contained in the salts to investigate the possibilities of manufacturing a fiber made of cellulose copper xanthate in order to study the basic properties of this fiber and to determine the fields in which practical use could be made of it. While production of the fiber is possible using a single bath, the use of the process proved to be undesirable because the copper sulfate in the precipitating bath entered an exchange reaction not only with the sodium xanthate, but with the sulfur compounds in the viscose as well. Copper consumption was increased and the fiber obtained was dirty. Use of two baths was resorted to and was found to be quite simple and caused no complications in the technological process. The first bath contained sodium sulfate and sodium bicarbonate or sulfate of ammonia, and was used to coagulate the viscose. After washing in a Na₂SO₄ solution the

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ONLIG REF: 005 / OTH REF: 003

ACC NR: AP6026737 (A)/I IJP(c) WW/RM. SOURCE CODE: UR/0183/66/000/003/0027/0030

AUTHOR: Rogovin, Z. A.; Tyuganova, M. A.; Gabrielyan, G. A.; Konnova, N. F.

ORG: M'I'I

TITLE: Preparation of <u>fireproof</u> viscose and polyacrylonitrile fibers

SOURCE: Khimicheskiye volokna, no. 3, 1966, 27-30

TOPIC TAGS: polyacrylonitrile, synthetic fiber, cellulose, cellulose plastic, heat resistant material

ABSTRACT: Preparation of fireproof phosphorus-containing fibers by means of a base catalyzed reaction of dimethylphosphite with aldehyde groups containing modified cellulose and polyacrylonitrile was studied. In the case of modified cellulose, the reaction temperature was 80-120°C, its duration was 1-4 hours, the catalyst/[HN(C₂H₅)₂. N(C₂H₅)₃, solid NaOH, 30%-aqueous NaOH, or 23%-NH₄OH] concentration was 1 wt % based on the starting total charge, and the starting dialdehydecellulose contained 5.96% aldehyde groups. The phosphorus centent in the product was 0-7.6% and the degree of aldehyde group utilization was 25-70%. Similar reaction conditions were also used in the reaction of dimethylphosphite with modified polyacrylonitrile. The product structures were confirmed by the IR spectroscopy. The product fibers with phosphorus confirmed structures were confirmed by the IR spectroscopy. The product fibers with phosphorus confirmed structures were confirmed by the IR spectroscopy. The product fibers with phosphorus confirmed structures were confirmed by the IR spectroscopy. The product fibers with phosphorus confirmed structures were confirmed by the IR spectroscopy. The product fibers with phosphorus confirmed structures were confirmed by the IR spectroscopy.

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<i>,</i>	ACC NR: AP6013276 SOURCE CODE: UR/0413/66/000/008/0078/0078	
	INVENTOR: Rogovin, Z. A.; Tyuganova, M. A.; Zharova, T. Ya.; Levin, B. B.; Fetin, I. N.	
	ORG: none	
1	TITLE: Preparation of graft copolymers of cellulose and phosphorus-containing monomers. Class 39, No. 180792	
5	SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966,	
	TOPIC TAGS: copolymer, graft copolymer, monomer, cellulose, primary aromatic	. ,
, c	ABSTRACT: This Author Certificate introduces a method for obtaining graft copolymers of cellulose and phosphorus-containing monomers by introducing aromatic amines into the cellulose molecule and subsequently converting them to diazo groups.	
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ACC NRI AP6009879	(A) SOURCE CODE:	UR/0413/66/000/004/00	70/0070
INVENTOR: Gulina, A. A.; Domi	iteyeva, I. A.; Livshits,	R. M.: Rogovin, Z. A.	7 .
ORG: none		A STATE OF THE STA	, 30 B
TITLE: Preparation of graft of	copolymers. Class 39, No	. 178987	D
SOURCE: Izobreteniya, promysh	lennyye obraztsy, tovarn	yye znaki, no. 4, 1966,	70
TOPIC TAGS: copolymer, graft	copolymer, redox system.	vinvl monomer	
ABSTRACT: An Author Certifica graft copolymer in the presenc	e of the redox system:	metal of variable valence	an and
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SOURCE CODE: UN/0286/05/000/0. 2/0.146/0016

AUTHOLS: Mogovin, Z. A.: Vashkov, V. I.; Shluger, H. A.; Virnik, A. D.; Shcheglow, G. V.; McTiscva, T. A.: Mensheritariy, A. I.

ONG: none

TITLE: A method for obtaining pactericidal fabrics and fibers based on cellulose. Class 29, No. 176363

SOUNCE: Byulleven' imporatency i havaragen zameov, ne. 2, 1905, h6

TOPIC TAGS: bactericide, cellulose, biologic protective clothing

ANSTHACT: This Author Certificate presents a method for obtaining pactericidal fabrics and fibers based on cellulose, by the introduction of icongenic groups and subsequent substitution with bactericidally active substances. To impart antimicrobic properties to the cellulose fabric (tiber), the latter is treated with the derivatives of hydroxi- or aminosulfe acids capable of reacting chemically with cellulose during their interaction with the bactericidally active substances. Those substances may be salts of heavy metals or quaternary ammonium bases.

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UDC: 677.46:615

L 37201-66 EWT(m)/EWP(J)/T ACC NR: AP6012415 (A)) SUURCE CODE: ON THE STATE OF
AUTHOR: Gabriyelyan, G. A.	.; Stanchenko, G. I.; Rogovin, Z. A.
	operties of fibers from acrylonitrile diketene
copolymer./	
norman, Whimichaskive vol	okna, no. 6, 1965, 13-16
TOPIC TAGS: synthetic fib	per, acrylonitrile, copolymerization, chemicals, chemic
ABSTRACT: Fibers were for acrylonitrile-diketene co 40,000-45,000 molecular weight of the copolymer g	med by the wet method from solutions of polymers in dimethylformamide. Copolymers of polymers in dimethylformamide. Copolymers of veight and containing 4-6 mol % diketene on the gave most stable solutions from which fibers gave most stable solutions from which fibers gave formed. Different types of reactive groups
hexamethylenediamine (HMI groups enabled the fibers	ere formed. Different types of the fibers with hydroxylamine or ing the fibers with hydroxylamine or hydroxylamine (DA). Introduction of amine or hydroxylamine of the bedyed with acid dyest. Chemically dyed the stone to be dyed with acid dyest. Chemically dyed or the copolymer fibers with HMDA and reacting the copolymer fibers with HMDA and oups. Subsequent treatment of acrylonitriles with HMDA significantly increased the zeros with HMDA significantly increased the zeros.
diketene copolymer fibers	UDC: 677.745.32
Card 1/2	

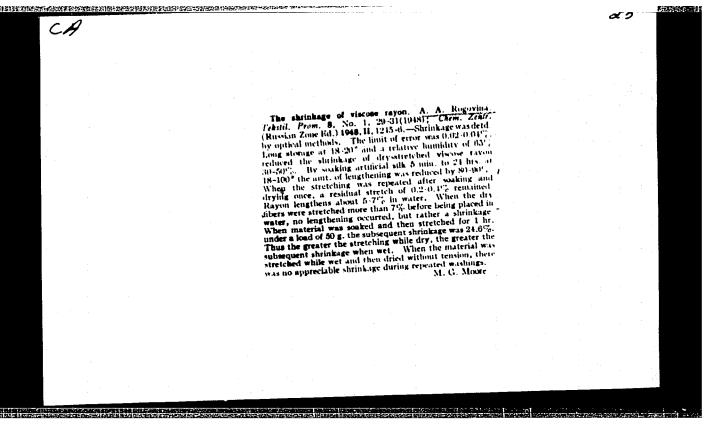
"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445

L 41334-66 SHT(a)/SWP(4)/@ МI ACC NR: AP6025617 SOURCE CODE: UR/0413/66/000/013/0075/0075 AUTHORS: Sergeyeva, L. M.; Rogovin, Z. A. 26 13 ORG: none TIFLE: A method for imparting insolubility No. 183374 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 75 TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer cross linking ABSTRACT: This Author Certificate presents a method for imparting insolubility to polyvinyl alcohol fiber by treating it with a cross-linking agent. To increase the fiber's resistance to the action of concentrated acids and bases, epichlorhydrin is used as the cross-linking agent. Either a concentrated or a water-acetone dilute alkali solution may be used as a catalyst for the cross-linking reaction. The fiber may be treated with the alkali solution prior to treatment with the cross-linking agent. [04] SUB CODE: 07/ SUBM DATE: 17Aug63/ ATD PRESS:5158 <u>Card</u> 1/1 11b 677.494.744.72:677.862.522:66.062.539

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001445



DFMINA, Natal'ya Vasil'yevna; MOTORIHA, Aleksandra Vasil'yevna; MOVIKOV, Nikolay Alekseyevich, kand.tekhn.nauk; MOVIKOVA, Sof'ya Aleksandrovna; NFMCHENKO, Eleonora Adol'rovna, kand.tekhn.nauk; PANFILOVA, Mariya Mikhaylovna; ROGOVINA, Alisa Aleksandrovna, kand.tekhn.nauk; ROMANOVA, Lyubov' Stepanovna; TALYZIN, M.D., kand.tekhn.nauk, retsenzent; VERBITSKAYA, Ye.M., red.

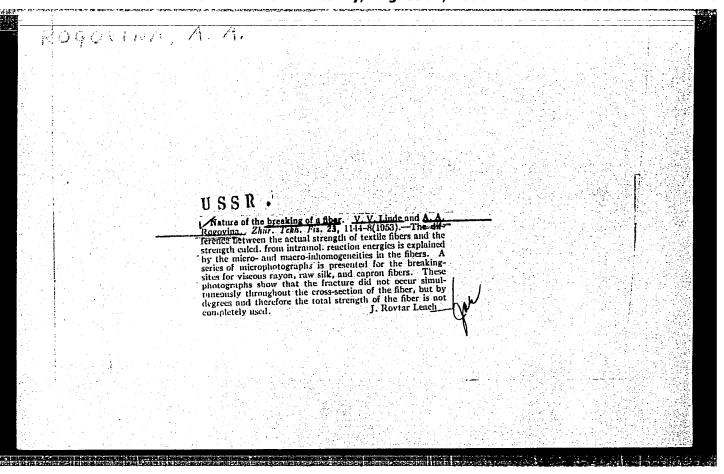
[Methods of physicomechanical testing of synthetic fibers, threads and films] Metody fiziko-mekhanicheskikh ispytanii khimicheskikh volokon, nitei i plenok. Moskva, Legkaia industriia, 1964. 352 p. (MIRA 18:1)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennykh volokon (for all except Talyzin, Verb'tskaya).

JAMANY, Ta.V.; HOW VIIA, A.A.

Studying the development of cracks in polyamide yarn under dynamic fatigue conditions. Khim.volok.no.5:59-62 164. (NTA 17:10)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut steklyannogo volokma (for Vasil'yev). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Rogovina).



ROGOVINA, A.A., kandidat tekhnicheskikh nauk.

Effect of thread structure on the properties of viscose cord.
Tekst.prom. 16 no.5:45-48 My *56. (MLRA 9:8)

(Textile fibers, Synthetic)

ROGOVINA, A.A.

SUBJECT

CARD 1 / 2 ROGOVÍNA, A.A., DAVIDOVIĆ, N.I., NEBYLIĆYN, B.F., NIKITIN, V.V.,

KARGIN, V.A.

TITLE

AUTHOR

The Study of the Behavior of Tire Tissues if Subjected to

Percussion.

I. Pendulum-Ram for the Testing of Tissue-(Cord)Fibres.

PERIODICAL

Žurn.techn.fis, 26, fasc.12, 2684-2689 (1956)

Issued: $1/195\overline{7}$

A large number of automobil tires are damaged after a very small mileage because the outer cover is destroyed by contact with some obstacle. In order to study the behavior of the tissue when subjected to such an impact, a pendulumram was constructed. The ballistic dynamometer by GUDBRANDT, which is usually used in practice, has a number of essential faults. These faults can be eliminated by separating the holding device from the pendulum. This may be attained in two ways: these impact tests were carried out on the stationary and immobile sample, which is held in a position vertical to the oscillation plane of the pendulum. The essential difference between the method of testing the tissue by means of a pendulum-ram on the one hand and that on the ballistic dynamometer on the other consists in the fact that, in the first case, the velocity of the deformation of the fibre grows during the process of expansion, whereas in the second case it remains nearly constant. The construction scheme and a photo of the pendulum ram is shown. The values obtained for elongation by tearing are more or less approximative values, because the actual amounts of these elonga-

CIA-RDP86-00513R0014451 APPROVED FOR RELEASE: Tuesday, August 01, 2000

Zurn.techn.fis, 26, fasc.12, 2684-2689 (1956) CARD 2 / 2 PA - 1822 tions of individual fibres remain unknown. The values obtained are shown in form of a table. By means of the pendulum ram the following tests can be carried out: Determination of the tearing characteristics of the cord subjected to impact and/or several impacts. In the course of the process the following quantities can be determined: the amount of energy needed for tearing the fibre; the amount of the elongation of the fibre; the duration of impact and, in the case of several impacts, also the number of impacts as well as the quantity of the common remaining and elastic deformations.

INSTITUTION: The Scientific Research Institute of the Automobile Tire Industry, Moscow.

ROGOVINA, A.A.

USSR / PHYSICS

CARD 1 / 2

PA - 1823

SUBJECT AUTHOR

TITLE

ROGOVINA, A.A., KARGIN, V.A.

The Study of the Behavior of Tire-Tissues when subjected to Impacts.

II. Resistance when subjected to Impact Stress.

Zurn.techn.fis, 26, fasc.12, 2690-2704 (1956) PERIODICAL

Issued: 1 / 1957

The task to be fulfilled by the present work was essentially to determine the qualitative difference in the behavior of cord in the case of impact-tests on the one hand, and of normed dynamometric tests on the other. For this purpose parallel tests were carried out with tire-cords on the dynamometer and on the pendulum ram. These tests were carried out with the most important types of viscose-, cotton-, and capron cords. In order to determine the influence exercised by humidity on cord, tests were carried out with air-dried fibres as well as with such as had been dried and had a humidity of 1-2%. In order to determine the influence exercised by temperature fibres were examined after previously being dried (humidity 1-2%) at 20 and 100°. It was found that the modification of the expansion velocity by 5 mm.sec up to some m.sec changes the amount of the elongation by tearing of the cord and the character of the deformations only very little. In spite of the effect which is practically instantaneous, stress by impact leads to the formation of considerable rest-changes. Hereby, however, the greater part of the work by expanding is transformed into heat in the case of cotton- and viscose cords within those ranges which approach the stage of deformation by tearing. The incessant increase of rest-elongations in

CIA-RDP86-00513R0014451 APPROVED FOR RELEASE: Tuesday, August 01, 2000

Zurn.techn.fis, 26, fasc.12, 2690-2704 (1956) CARD 2 / 2 PA - 1823

the case of repeated impacts causes fibres to tear within a comparatively short time in the case of repeated stress by impact. Tests showed that in an inflated tire viscose- and cotton cord covers are able to work for some considerable time in the case of an expansion which must, however, not exceed 2-3%. The durability of capron cord is considerably higher. Stress by impact when tearing cord is greater than static stress. In the case of cotton- and viscose cord this difference is from 1.5 to double the amount, and in the case of capron cord it is from 5 to 30%. The increase of working output in the case of a tearing of the fibre as a result of impact is effected essentially at the expense of an increase of the strength of the fibre. It was found that in the case of rapidly carried out tests the relaxation processes which cause a weakening of the fibre in the case of slow expansion have in this case not enough time to enter fully into effect. This is the main reason for the increase of strength in the case of impact. With a certain type of cord, and in the case of certain test conditions, there exists a direct correlation between the results obtained by impact- and dynamometric tests. Impact tests are more sensitive with respect to the modification of the mechanic properties of the cord than dynamometric ones.

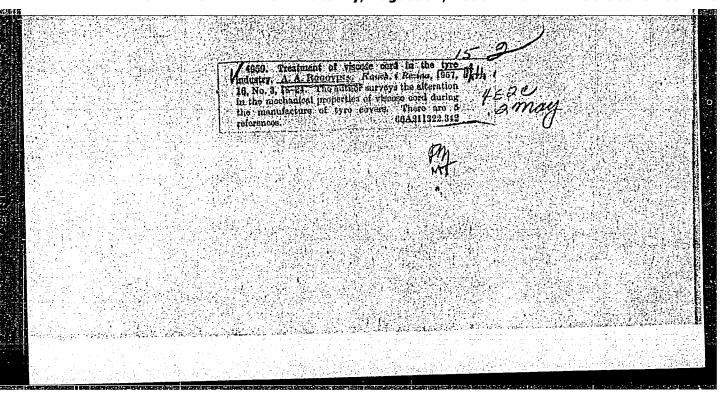
INSTITUTION: Scientific Research Institute of the Tire Industry, Moscow.

MOCOVITA, A. A., and KAROII, V. A.

"Impact strength of textile yarns," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 20 Jan 2 Feb 57, Moscow, Textile Research Inst.

B-3,004,395

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445



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CIA-RDP86-00513R001445

ROGOVINA, A.A.; KUZNETSOVA, R.Ye.

Changes in the characteristics of nylon cord in water scaking and subsequent drying. Khim. volck. no.4:56-59 '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

ROGOVINA, A.A., NOVIKOVA, S.A.; GIL'MAN, I.S.: VASIL'YEV, Yu.V.

Some structural changes in polyamide fibers occurring during heating and dynamic fatigue. Khim. volok. no.4:56-60 164. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Rogovina, Novikova). 2. Moskovskiy tekstil'nyy institut (for Gil'man, Vasil'yev.).

ROGOVINA, A.A.; VASIL'YEV, Yu.V.; YEVREINOV, Yu.V.

Study of the process of the development of defects in fibers during static fatigue and stretching. Khim. volok. no.6:60. 4 (MIRA 8:1)

1. V esoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volckna (for Rogovina). 2. VNIISV (for Vasil'yev). 3. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. Lomonosova (for Yevreinov).

ROGOVINA, A.A.; KUZNETSOVA, R.Ye.

Change in the properties of viscose cord undergoing water wetting and subsequent drying. Khim. volok. no.3:45-50 64. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001445

		NA, A.A. Studying the causes of fatigue destruction of automobile Izv.vys.ucheb.zav.; tekh.tekst.prom. no.1:34-38 163. (MIRA							obile 1 3. (MIRA I		i.
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ROGOVINA, A.A., NOVIKOVA, S.A., GIL'MAN, I.S., VASIL'YEV, YU.V.

Some structural changes of polyamide fibers on heating and dynamic fatigue.

Report presented at the 13th Conference on high-molecular compounds Moscow, 8-11 Oct 62

EYZENSHTEYN, E. M.; ROGOVINA, A. A.

Eighth Conference on Macromolecular Compounds. Khim. volok.
no.6:75-77 '62. (MIRA 16:1)

(Macromolecular compounds-Congresses)

S/183/62/000/006/002/002 B101/B186

AUTHORS:

Eyzenshteyn, E. M., Regovina, A. A.

TITLE:

13th Conference on High-molecular Compounds

PERIODICAL: Khimicheskiye volokna, no. 6, 1962, 75 - 77

TEXT: The 13th konferentsiya po vysokomolekulyarnym soyedineniyam (Conference on High-molecular Compounds) was held in Moscow on October 8-11, 1962. It was attended by 1600 scientists, engineers, and designers from more than 280 scientific research institutes, universities, industrial establishments, and planning and designing organizations concerned with various branches of industry. The conference dealt with the mechanical properties of polymers. Over 150 reports were presented. In the present survey the reports of interest to experts of the man-made fiber industry are listed. In his opening speech, Academician A. V. Topchiyev, Vice-president of the AS USSR, stressed the importance of polymers for the national economy. Three reports were delivered at the plenary meeting: V. A. Kargin, Academician, "Structure and mechanical properties of polymers"; G. L. Slonimskiy, "High elasticity of polymers"; G. M. Bartenev, "Nature and laws of polymer flow". It has been stated Card 1/8

LINEAR PLIEBULE CONTROL CONTRO

S/183/62/000/006/002/002 B101/B186

13th Conference on ...

that the statistical theory of the convoluted polymer molecule does not satisfactorily explain the mechanical properties of polymers; a relationship has to be established between these properties and the supermolecular structures both in the equilibrium and in the nonequilibrium states. polymer rheology should be concerned with the study of molecular structures and their destruction, and with the various forms of flow and the transition from mechanical to chemical flow. The conference worked in five sections: (1) theoretical fundamentals of elasticity, plasticity, and strength of polymers; (2) mechanical properties of polymers; (3) physicomechanical fundamentals of polymer processing; (4) methods of mechanical testing; (5) glass-reinforced plastics. In section 1, 36 reports were presented and 57 persons took part in the discussions. The main problem was the fluctuation theory of strength as developed in recent years by S. N. Zhurkov, Corresponding Member AS USSR, and collaborators, at the Fiziko-tekhnicheskiy institut AN SSSR (Physicotechnical Institute AS USSR). Reports: V. R. Regel', T. M. Muinov, and O. F. Pozdnyakov, "Application of mass spectrometry to investigate the mechanical destruction of polymers"; A. M. Leksovskiy and V. R. Regel', "Study of static and dynamic fatigue of polymers"; S. A. Abasov and S. N. Zhurkov reported on relations between the degree of polymerization and the strength of Card 2/8

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S/183/62/000/006/002/002 B101/B186

13th Conference on ...

oriented and non-oriented caprone fibers. A. D. Chevychelov and A. I. Gubanov spoke about a "Precise formulation of the kinetic theory of polymer strength" and "Bond and cohesive energy in polymers"; A. I. Meos and M. N. Vishnyakova (Leningradskiy tekstil'nyy institut - Leningrad Textile Institute), "Electron-microscopic study of the supermolecular structure of some chemical fibers"; V. A. Marikhin, S. N. Zhurkov, and L. P. Romankova, "Electron-microscopic study of the supermolecular structure of polymers on cleavage surfaces"; I. I. Novak, S. N. Zhurkov, and V. I. Vetegren', "Study of orientation and crystallization of caprone fibers by infrared microscopy"; L. I. Nadareyshvili and T. I. Sogolova (Fiziko-khimicheskiy institut im. L. Ya. Karpova - Physicochemical Institute imeni L. Ya. Karpov), "Study of supermolecular structures of gutta-percha"; G. P. Andrianova and V. A. Kargin (Institut neftekhimicheskogo sinteza ANSBSR - Institute of Petrochemical Synthesis AS USSR), "Effect of microscopic structures on the mechanical behavior of isotactic polypropylene"; V. Ye. Gul', V. V. Kovriga, and A. M. Vasserman (Moskovskiy institut tonkoy khimicheskoy tekhnologii - Moscow Institute of Fine Chemical Technology), "Effect of supermolecular structures on the strength of polypropylene"; N. F. Bakeyev, P. V. Kozlov, and G. N. Kardash (MGU), "Effect of the morphology of spherulite structures on the Card 3/8

S/183/62/000/006/002/002 B101/B186

13th Conference on ...

properties of the mechanical behavior of crystalline polymers; A. I. Slutsker and A. Ye. Gromov (Physicotechnical Institute AS USSR), "Study of orientation in polymer fibers by the x-ray diffraction method"; L. G. Kazaryan, D. Ya. Tsvankin, and L. Z. Rogovina (Institut elementoorganicheskikh soyedineniy AN SSSR - Institute of Elemental Organic Compounds AS USSR), "Study of the orientation process during deformation of polypropylene"; T. A. Shamrayevskaya, Yu. N. Lesnichiy, N. A. Shchegolevskaya, and S. I. Sokolov (Moskovskiy institut khimicheskogo mashinostroyeniya - Moscow Institute of Chemical Machinery), "Study of the conditions for mutual compensation of the effects due to positive and negative birefringence"; M. F. Milagin and N. I. Shishkov (Physicotechnical Institute AS USSR), "Birefringence and strength of polymers"; P. V. Kozlov, V. G. Timofeyeva, and V. A. Kargin (MGU, NIKFI), "Effect of small admixtures of low-molecular substances on the mechanical properties of rigid chain polymers"; A. I. Suvorova and A. A. Tager (Ural' skiy gosudarstvennyy universitet im. A. M. Gor'kogo - Ural State University imeni A. M. Gor'kiy), "Effect of chemical structure and dimension of plasticizer molecules on the vitrification temperature of polymers"; L. Z. Rogovina and G. L. Slonimskiy (Institute of Elemental Organic Compounds AS USSR), "Study of stress relaxation processes in crystalline and Card 4/8

S/183/62/000/006/002/002 B101/B186

13th Conference on ...

amorphous polymers". Section 2: Kh. U. Usmanov, M. S. Nigmakhodzhayeva, M. Alimbekov, and I. Kh. Khakimov (Institut khimii polimerov AN UzSSR -Institute of Polymer Chemistry AS UzSSR), "Study of mechanical and thermodynamical properties of cellulose in organic solvents"; G. N. Kukin gave a survey on the mechanical properties of textile fibers; N. I. Naymark (MTI), "Some peculiarities of the deformation of cotton yarn"; A. A. Rogovina, S. A. Novikova, I. S. Gil'man, and Yu. V. Vasil'yev (VNIIV., MTI), "Some structural changes of polyamide fibers on heating and dynamic fatigue"; V. A. Berestnev, I. P. Nagdaseva, M. B. Lytkina, Z. I. Suleymanova, A. V. Orlova, and L. S. Dubova (NIIShP), "Study of the relationship between mechanical properties and structure of cord fibers"; M. P. Vershinina, V. R. Regel', and N. N. Chernyy (Physicotechnical Institute AS USSR), "Effect of UV radiation on the kinetics of flow and destruction of caprone fibers". In the resolution adopted by this section thac development of research on the mechanical properties of textile fibers was described as unsatisfactory, which was drawn to the attention of the Komitet Soveta Ministrov SSSR po koordinatsii nauchno-issledovatel skikh rabot (Committee of the USSR Council of Ministers for the Coordination of Scientific Research Work). Section 3: 36 reports were delivered and 60 persons took part in the discussions. Professor G. V. Vinogradov Card 5/8

S/183/62/000/006/002/002 B101/B186

13th Conference on ...

gave a survey of the basic problems of theory and testing methods in the study of polymer rheology. R. A. Baltenas and L. A. Igonin (NIIplastmass), "Study of the effect of high pressures on melting temperature and viscosity of polyethylene melts"; Z. G. Povarova (NIIRP), "Viscosimetric method of determining structural changes of polymers when processed at various temperatures and pressures "; I. V. Konyukh, I. M. Belkin, and E. Mustafayev (Institute of Petrochemical Synthesis AS USSR), "Rotation viscosimetry of polymer melts"; N. V. Prozorovskaya, "Capillary viscosimetry of polymer melts"; A. A. Konstantinov and I. V. Konyukh, "Automatic capillary viscosimeter AKB-5 (AKV-5)"; M. P. Zabugina, I. V. Konyukh, A. A. Konstantinov, "Capillary microviscosimeter for polymer melts"; R. V. Torner (NIIShP), "Basic trends in the development of extruders for processing thermoplastic materials"; V. I. Morozov, B. P. Shtarkman, and Ye. I. Rylov, "Physicomechanical fundamentals of polymer processing by screwless extruders"; V. Ye. Dreval' and A. A. Tager (Ural State University imeni A. M. Gor'kiy), "Study of the rheological properties of concentrated solutions of welastic, glassy, and crystalline polymers as a function of concentration, temperature, and type of solvent"; S. A. Glikman, V. M. Aver'yanova, and L. I. Khomutova (Saratovskiy gosudarst-Card 6/8

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13th Conference on ...

医结肠 我们就是这个时间,我们就是一个人们都没有这个女子,我们还是什么,我们也是一个人们的,我们也是一个人们的,我们也不是一个人们的,我们就是一个人们的人们,

vennyy universitet im. N. G. Chernyshevskogo - Saratov State University imeni N. G. Chernyshevskiy), "Mechanical properties and structure of acetyl cellulose spinning solutions"; E. A. Pakshver (VNIISV), "Rheological (viscous) properties of viscose solutions". Reports delivered by collaborators of IVS AN SSSR: S. Ya. Frenkel', L. G. Shaltyko, L. N. Korzhavin, and L. M. Pyrkov, "Use of active media for shaping and strengthening synthetic fibers"; L. M. Pyrkov, A. Ya. Sorokin, and S. Ya. Frenkel', "Application of the principle of active media to produce highstrength fibers from polyvinyl alcohol"; G. N. Afanas'yeva, A. I. Meos, and L. A. Vol'f (Leningrad Textile Institute) spoke on a "Method of producing high-strength polyvinyl alcohol fibers" by which strengths of 80 - 100 km and elongations of 8 - 10 % have been reached. B. Ye. Geller, S. I. Slepakova, and E. Z. Zakirov (Tashkentskiy tekstil'nyy institut - 3 Tashkent Textile Institute), "The role of the mobility of macromolecules" in the network formation process in the formation of carbochain fibers". Section 4: 31 reports were delivered and about 30 persons took part in the discussions. They dealt with: problems of testing at high deformation rates under complex stress conditions at high temperatures; automation of testing. L. P. Rudakov reported on an automatic dynamometer developed in the IVS AN SSSR for testing fibers; F. Kh. Sadykova (MTI) on Card 7/8

13th Conference on ...

S/183/62/000/006/002/002 B101/B186

a safe and simple method for determining the Poisson coefficient in textile fibers; Professor A. N. Sokolov (MTI), Determination of the toughness of textile fabrics in stretching"; L. A. Layus (AS USSR) stated that in testing samples oriented by stretching the stress-temperature curves supplied better information on orientation than birefringence. N. A. Dyurich, 'A. Ye. Yel'kin, and V. V. Lavrent! yev (MGPI im. V. I. Lenina - MGPI imeni V. I. Lenin) reported on new apparatus and methods for determining the friction coefficient of polymers. Yu. G. Yanovskiy, G. M. Vinogradov, S. K. Krashennikov, V. S. Shifman (Institute of Petrochemical Synthesis AS USSR), and G. K. Demishev, Yu. V. Zelenov (MGPI imeni V. I. Lenin) spoke on apparatus for testing polymers with audiofrequencies. V. V. Kovriga (Moscow Institute of Fine Chemical Technology) reported on an apparatus for plotting the stress-deformation curve in one-dimensional stretching at a velocity of 25 - 30 m/sec within a wide temperature range. Section 5: 14 reports were delivered concerning theoretical and experimental studies of the mechanical properties of glass-reinforced plastics. An elaborate resolution was adopted att the final plenary meeting.

Card 8/8

ROGOVINA, A.A.; VASIL'YEV, Yu.V.

Effect of atmospheric oxygen on the mechanism of fatigue failure of a capron cord. Khim.volok. no.5:50-54 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna. (for Rogovina). 2. Moskovskiy tekstil'nyy institut (for Vasil'yev).

(Nylon--Testing)

ROGOVINA, A.A.; VASIL'YEV, Yu.V.

Resistance of a cord made of certain kinds of synthetic fibers to multiple dynamic deformations. Khim.volok no.4:63-68 '62. (MIRA 15:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Rogovina). 2. Moskovskiy tekstil'nyy institut (for Vasil'yev).

(Textile fibers, Synthetic--Testing)

NOMAIN, A.A.: 100,000 PA. A.A.: 11 day, C.Te.

Thesent state and respect for the production of three cord. Khim. (IRA 14:2)

1. Hoskovskiy actable my institut (for Aontin). 2. Vescoyutnyy nauchno-is dedoxabalektry institut binastvennogo voloima (for hogovina, Birger).

(Tire datation)

s/183/61/000/001/002/006 B101/B205

Konkin, A. A., Rogovina, A. A., Birger, G. Ye. Present stage and prospects of tire cord production

AUTHORS:

Khimicheskiye volokna, no. 1, 1961, 3-14 TITLE:

TEXT: This is a review of publications on the production of tire cord, which bases primarily on Western literature. In the Soviet Union, tire cord is produced from cotton, viscose and caprone fibers. As the Seven-year Plan PERIODICAL: (1959-1965) provides for a substantial increase of the production of viscose cord (2.8 times) and caprome cord (22 times), 91% of all tire cord will be made from synthetic fibers in 1965. The review is divided into five sections: tions: 1) Achievements in the field of viscose and polyamide cord productions: 10 Achievements in the field of viscose and polyamide cord productions: tion. This section bases chiefly on Western literature. 2) Physicomechanition. This section bases chiefly on Western literature. 2007 Page 1007 Pa cal properties of viscose, caprone, and nylon cord. Besides several Western publications, mention is made of a paper by V. A. Kargin and a paper by publications, mention is made of a paper by V. A. Kargin and a paper by M. B. Lytkina, Ye. Ya. Yaminskaya, V. F. Yevstratov, and Ye. V. Troshkina M. B. Lytkina, Ye. Ya. Yaminskaya, V. F. Yevstratov, cord "Super-super", on impact tests:

on impact tests:

on impact tests:

on deprone cord, 850. The optimum modulus and elongation have not yet and caprone cord, 850.

card 1/4

S/183/61/000/001/002/006 B101/B205

Present stage and ...

been determined. Tests made by A. V. Motorina, A. A. Konkin, N. V. Mikhaylov, and others confirmed that the behavior of polyamide heated in an inert atmosphere differs from that heated in air. 3) Brief analysis of data on the testing and practical use of tires made from different types of cord. It is noted that the NIIShP (Scientific Research Institute of the Tire Industry) has made several tests of tires which showed that caprone cord is best suited for the purpose. This is ascribed to the poor quality of viscose cord. 4) Technical and economic data on the use of viscose and polyamide cord. This section deals with an investigation carried out by VNIIV (All-Union Scientific Research Institute of Synthetic Fibers) in cooperation with the Scientific Research Institute of the Tire Industry, in the course of which the highly stable cord no. 5.45/2/1 was compared with caprone cord no. 10.7/2/1. Both types were assumed to have a lifetime of 63,000 km. When putting the cost of viscose cord as 100%, the following figures are obtained for caprone cord:

Card 2/4

Present stage and	S/183/61/000/001/002/006 B101/B205	
Production of cord referred to a distance of 1000 km covered by the tire	216	
Cord and rubber (per 1000 km)	tam were taken from planning ate Design and Scientific Re- nd of the All-Union Scientific corresponding figures for anide putting capital cost and prime	V
cost of caprone cord fiber as 100%. The first AP("AG") salt. According to I. Ye. Krichevs cut is possible by using non-aromatic starti and butadiene. 5) Prospects of the use of of tire cord. Reference is made to Western	ng materials, such as furfurol ther fibers in the production	